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2021

Virtual voids method to generate low-density microporous carbon structures using quenched molecular dynamics simulation.

Luo Z, Burrows SA, Fan X, Smoukov SK and Boek ES. *Carbon* vol. 183, 438-448.

Fluidisation characteristics of granular activated carbon in drinking water treatment applications.

Kramer OJI, van Schaik C, Dacomba-Torres PDR, de Moel PJ, Boek ES, Baars ET, Padding JT and van der Hoek JP. *Advanced Powder Technology* vol. 32, (9) 3174-3188.

Experimental and numerical insights into heterogeneous liquid-solid behaviour in drinking water softening reactors.

Nijssen TMJ, Kramer OJI, de Moel PJ, Rahman J, Kroon JP, Berhanu P, Boek ES, Buist KA, van der Hoek JP, Padding JT and Kuipers JAM. *Chemical Engineering Science: X* vol. 11,.

Pore-scale dissolution mechanisms in calcite-CO₂-brine systems: The impact of non-linear reaction kinetics and coupled ion transport.

Gray F, Anabaraonye BU, Crawshaw JP and Boek ES. *Geochimica Et Cosmochimica Acta* vol. 305, 323-338.

A novel sensor measuring local voidage profile inside a fluidised bed reactor.

Kramer OJI, van Schaik C, Hangelbroek JJ, de Moel PJ, Colin MG, Amsing M, Boek ES, Breugem WP, Padding JT and van der Hoek JP. *Journal of Water Process Engineering*.

New hydraulic insights into rapid sand filter bed backwashing using the Carman-Kozeny model.

Kramer OJI, de Moel PJ, Padding JT, Baars ET, Rutten SB, Elarbab AHE, Hooft JFM, Boek ES and van der Hoek JP. *Water Research* vol. 197,.

Benchmarking of Molecular Dynamics Force Fields for Solid-Liquid and Solid-Solid Phase Transitions in Alkanes.

Burrows SA, Korotkin I, Smoukov SK, Boek E and Karabasov S. *Journal of Physical Chemistry B* vol. 125, (19) 5145-5159.

2020

Pore-Scale Modeling of Drainage Displacement Patterns in Association With Geological Sequestration of CO₂.

Zacharoudiou I, Boek ES and Crawshaw J. *Water Resources Research* vol. 56, (11).

Investigation of viscous coupling effects in three-phase flow by lattice Boltzmann direct simulation and machine learning technique.

Jiang F, Yang J, Boek E and Tsuji T. *Advances in Water Resources* vol. 147, Elsevier.

Accurate voidage prediction in fluidisation systems for full-scale drinking water pellet softening reactors using data driven models.

Kramer OJI, de Moel PJ, Padding JT, Baars ET, Hasadi YMFE, Boek ES and van der Hoek JP. *Journal of Water Process Engineering* vol. 37, Elsevier.

Improvement of voidage prediction in liquid-solid fluidized beds by inclusion of the Froude number in effective drag relations.

Kramer OJI, Padding JT, van Vugt WH, de Moel PJ, Baars ET, Boek ES and van der Hoek JP. *International Journal of Multiphase Flow* vol. 127, Elsevier.

2019

Application of a Digital Oil Model to Solvent-Based Enhanced Oil Recovery of Heavy Crude Oil.

Iwase M, Liang Y, Masuda Y, Morimoto M, Matsuoka T, Boek ES, Kaito Y and Nakagawa K. *Energy and Fuels. American Chemical Society.*

Catalogue of Plausible Molecular Models for the Molecular Dynamics of Asphaltenes and Resins Obtained from Quantitative Molecular Representation.

Law JC, Headen TF, Jimenez-Serratos G, Boek ES, Murgich J and Müller EA. *Energy & Fuels* vol. 33, (10) 9779-9795. *American Chemical Society (Acs).*

Image-based simulations of absolute permeability with massively parallel pseudo-compressible stabilised finite element solver.

Yang L, Yang J, Boek E, Sakai M and Pain C. *Computational Geosciences. Springer Science and Business Media Llc.*

2018

The impact of drainage displacement patterns and Haines jumps on CO2 storage efficiency.

Zacharoudiou I, Boek ES and Crawshaw J. *Scientific Reports* vol. 8, (1).

Chemical mechanisms of dissolution of calcite by HCl in porous media: Simulations and experiment.

Gray F, Anabaraonye B, Shah S, Boek E and Crawshaw J. *Advances in Water Resources* vol. 121, 369-387.

Construction, validation, and application of digital oil: Investigation of asphaltene association toward asphaltene-precipitation prediction.

Sugiyama S, Liang Y, Murata S, Matsuoka T, Morimoto M, Ohata T, Nakano M and Boek ES. *Spe Journal* vol. 23, (3) 952-968.

Construction, Validation, and Application of Digital Oil: Investigation of Asphaltene Association Toward Asphaltene-Precipitation Prediction.

Sugiyama S, Liang Y, Murata S, Matsuoka T, Morimoto M, Ohata T, Nakano M and Boek ES. *Society of Petroleum Engineers Journal* vol. 23, (03) 952-968.

2017

Development of Digital Oil for Heavy Crude Oil: Molecular Model and Molecular Dynamics Simulations.

Iwase M, Sugiyama S, Liang Y, Masuda Y, Morimoto M, Matsuoka T, Boek ES, Ueda R and Nakagawa K. *Energy and Fuels* vol. 32, (3) 2781-2792.

Experimental Study on Kinetics of Asphaltene Aggregation in a Microcapillary.

Li X, Guo Y, Boek ES and Guo X. *Energy and Fuels* vol. 31, (9) 9006-9015.

Pore-filling events in single junction micro-models with corresponding lattice Boltzmann simulations.

Zacharoudiou I, Chapman EM, Boek ES and Crawshaw JP. *Journal of Fluid Mechanics* vol. 824, 550-573.

High-Resolution 3D FIB-SEM Image Analysis and Validation of Numerical Simulations of Nanometre-Scale Porous Ceramic with Comparisons to Experimental Results.

Welch NJ, Gray F, Butcher AR, Boek ES and Crawshaw JP. *Transport in Porous Media* vol. 118, (3) 373-392. *Springer Verlag.*

Convex hull approach for determining rock representative elementary volume for multiple petrophysical parameters using pore-scale imaging and Lattice-Boltzmann modelling.

Shah SM, Crawshaw JP, Gray F, Yang J and Boek ES. *Advances in Water Resources* vol. 104, 65-75. *Elsevier.*

Simulation of Asphaltene Aggregation through Molecular Dynamics: Insights and Limitations.

Headen TF, Boek ES, Jackson G, Totton TS and Müller EA. *Energy and Fuels* vol. 31, (2) 1108-1125. *American Chemical Society.*

Progress in Computer Simulations of Wormlike Micellar Fluids.

Boek ES. *Rsc Soft Matter*.

2016

Three-dimensional imaging of porous media using confocal laser scanning microscopy.

Shah SM, Crawshaw JP and Boek ES. *Journal of Microscopy* vol. 265, (2) 261-271. Wiley.

Simulation of dissolution in porous media in three dimensions with lattice Boltzmann, finite-volume, and surface-rescaling methods.

Gray F, Cen J and Boek ES. *Phys Rev E* vol. 94, (4-1) 043320-043320.

Rheology and Phase Behavior of Carbon Dioxide and Crude Oil Mixtures.

Hu R, Crawshaw JP, Trusler JPM and Boek ES. *Energy and Fuels* vol. 31, (6) 5776-5784. American Chemical Society.

Micro-computed tomography pore-scale study of flow in porous media: Effect of voxel resolution.

Shah SM, Gray F, Crawshaw JP and Boek ES. *Advances in Water Resources* vol. 95, 276-287.

Simulating dispersion in porous media and the influence of segmentation on stagnancy in carbonates.

Gray F, Cen J, Shah SM, Crawshaw JP and Boek ES. *Advances in Water Resources* vol. 97, 1-10. Elsevier.

Changes in the interlayer structure and thermodynamics of hydrated montmorillonite under basin conditions: Molecular simulation approaches.

Zhou J, Lu X and Boek ES. *Clays and Clay Minerals* vol. 64, (4) 503-511. Clay Minerals Society.

Molecular Dynamics Simulations of Slip on Curved Surfaces.

Ross DA and Boek ES. *Oil & Gas Science and Technology – Revue de l'Ifp Energies Nouvelles* vol. 71, (4).

Capillary filling and Haines jump dynamics using free energy Lattice Boltzmann simulations.

Zacharoudiou I and Boek ES. *Advances in Water Resources* vol. 92, 43-56.

Confined water in tunnel nanopores of sepiolite: Insights from molecular simulations.

Zhou J, Lu X and Boek ES. *American Mineralogist* vol. 101, (3) 713-718.

Adsorption of asphaltenes on the calcite (10.4) surface by first-principles calculations.

Alvim RS, Lima FCDA, Sánchez VM, Headen TF, Boek ES and Miranda CR. *Rsc Advances* vol. 6, (97) 95328-95336.

Enhancing computational precision for lattice Boltzmann schemes in porous media flows.

Gray F and Boek E. *Computation* vol. 4, (1).

2015

Rheology of diluted heavy crude oil saturated with carbon dioxide.

Hu R, Crawshaw JP, Trusler JPM and Boek ES. *Energy and Fuels* vol. 29, (5) 2785-2789.

Molecular simulation study of hydrated Na-rectorite.

Zhou J, Boek ES, Zhu J, Lu X, Sprik M and He H. *Langmuir* vol. 31, (6) 2008-2013.

2014

Molecular dynamics simulations of interlayer structure and mobility in hydrated Li-, Na- and K-montmorillonite clays.

Boek ES. *Molecular Physics* vol. 112, (9-10) 1472-1483.

Preparation of microporous rock samples for confocal laser scanning microscopy.

Shah SM, Crawshaw JP and Boek ES. *Petroleum Geoscience* vol. 20, (4) 369-374.

2013

12. Multi-scale Imaging and Simulation of Structure, Flow and Reactive Transport for CO₂ Storage and EOR in Carbonate Reservoirs.

Crawshaw JP and Boek ES. *Geochemistry of Geologic CO₂ Sequestration*.

Quantitative determination of molecular propagator distributions for solute transport in homogeneous and heterogeneous porous media using lattice Boltzmann simulations.

Yang J, Crawshaw J and Boek ES. *Water Resources Research* vol. 49, (12) 8531-8538.

Molecular dynamics simulations of CO₂ and brine interfacial tension at high temperatures and pressures.

Li X, Ross DA, Trusler JPM, Maitland GC and Boek ES. *Journal of Physical Chemistry B* vol. 117, (18) 5647-5652.

Multi-scale imaging and simulation of structure, flow and reactive transport for CO₂ storage and EOR in carbonate reservoirs.

Crawshaw JP and Boek ES. *Reviews in Mineralogy and Geochemistry* vol. 77, (1) 431-458.

2012

Systematic optimization of asphaltene molecular structure and molecular weight using the quantitative molecular representation approach.

Al Halwachi HK, Yakovlev DS and Boek ES. *Energy and Fuels* vol. 26, (10) 6177-6185.

Molecular dynamics simulation of spontaneous imbibition in nanopores and recovery of asphaltenic crude oils using surfactants for EOR applications.

Stukan MR, Ligneul P and Boek ES. *Oil and Gas Science and Technology* vol. 67, (5) 737-742.

Free energies of absorption of alkali ions onto beidellite and montmorillonite surfaces from constrained molecular dynamics simulations.

Suter JL, Sprik M and Boek ES. *Geochimica Et Cosmochimica Acta* vol. 91, 109-119.

12th international conference on petroleum phase behavior and fouling.

Boek ES. *Energy and Fuels* vol. 26, (5).

Interfacial tension of (brines + CO₂): CaCl₂(aq), MgCl₂(aq), and Na₂SO₄(aq) at temperatures between (343 and 423) K, pressures between (2 and 50) MPa, and molalities of (0.5 to 5) mol/kg -1.

Li X, Boek ES, Maitland GC and Trusler JPM. *Journal of Chemical and Engineering Data* vol. 57, (5) 1369-1375.

Experimental investigation of asphaltene deposition in capillary flow.

Lawal KA, Crawshaw JP, Boek ES and Vesovic V. *Energy and Fuels* vol. 26, (4) 2145-2153.

Li X, Boek E, Maitland GC and Trusler JPM. *Journal of Chemical and Engineering Data* vol. 57, (4) 1078-1088.

Error analysis and correction for Lattice Boltzmann simulated flow conductance in capillaries of different shapes and alignments.

Sengupta A, Hammond PS, Frenkel D and Boek ES. *Journal of Computational Physics* vol. 231, (6) 2634-2640.

Deep Bed Filtration Modelling of Formation Damage Due to Particulate Invasion from Drilling Fluids.

Boek ES, Hall C and Tardy PMJ. *Transport in Porous Media* vol. 91, (2) 479-508.

2011

Modeling permeability impairment in porous media due to asphaltene deposition under dynamic conditions.

Lawal KA, Vesovic V and Boek ES. *Energy and Fuels* vol. 25, (12) 5647-5659.

2010

Spontaneous imbibition in nanopores of different roughness and wettability.

Stukan MR, Ligneul P, Crawshaw JP and Boek ES. *Langmuir* vol. 26, (16) 13342-13352.

Lattice-Boltzmann studies of fluid flow in porous media with realistic rock geometries.

Boek ES and Venturoli M. *Computers and Mathematics With Applications* vol. 59, (7) 2305-2314.

2009

Review of multi-scale particulate simulation of the rheology of wormlike micellar fluids.

Padding JT, Briels WJ, Stukan MR and Boek ES. *Soft Matter* vol. 5, (22) 4367-4375.

Multi-scale simulation of asphaltene aggregation and deposition in capillary flow.

Boek ES, Headen TF and Padding JT. *Faraday Discussions* vol. 144, 271-284.

Small angle neutron scattering (SANS and V-SANS) study of asphaltene aggregates in crude oil.

Headen TF, Boek ES, Stellbrink J and Scheven UM. *Langmuir* vol. 25, (1) 422-428.

2008

Adsorption of a sodium ion on a smectite clay from constrained ab initio molecular dynamics simulations.

Suter JL, Boek ES and Sprik M. *Journal of Physical Chemistry C* vol. 112, (48) 18832-18839.

Dynamics and rheology of wormlike micelles emerging from particulate computer simulations.

Padding JT, Boek ES and Briels WJ. *Journal of Chemical Physics* vol. 129, (7).

Deposition of colloidal asphaltene in capillary flow: Experiments and mesoscopic simulation.

Boek ES, Ladva HK, Crawshaw JP and Padding JT. *Energy and Fuels* vol. 22, (2) 805-813.

Influence of system size and solvent flow on the distribution of wormlike micelles in a contraction-expansion geometry.

Stukan MR, Boek ES, Padding JT and Crawshaw JP. *European Physical Journal E* vol. 26, (1-2) 63-71.

Flow of wormlike micelles in an expansion-contraction geometry.

Stukan MR, Boek ES, Padding JT, Briels WJ and Crawshaw JP. *Soft Matter* vol. 4, (4) 870-879.

2007

Flow of entangled wormlike micellar fluids: Mesoscopic simulations, rheology and PIV experiments.

Boek ES, Padding JT, Anderson VJ, Briels WJ and Crawshaw JP. *Journal of Non-Newtonian Fluid Mechanics* vol. 146, (1-3) 11-21.

Molecular dynamics simulations of mixed cationic/anionic wormlike micelles.

Yakovlev DS and Boek ES. *Langmuir* vol. 23, (12) 6588-6597.

2006

Molecular order and disorder of surfactants in clay nanocomposites.

Tambach TJ, Boek ES and Smit B. *Physical Chemistry Chemical Physics* vol. 8, (23) 2700-2702.

Two-dimensional lattice-Boltzmann simulations of single phase flow in a pseudo two-dimensional micromodel.

Venturoli M and Boek ES. *Physica a: Statistical Mechanics and Its Applications* vol. 362, (1) 23-29.

2005

Rheology of wormlike micellar fluids from Brownian and molecular dynamics simulations.

Padding JT, Boek ES and Briels WJ. *Journal of Physics Condensed Matter* vol. 17, (45).

Mechanical properties of surfactant bilayer membranes from atomistic and coarse-grained molecular dynamics simulations.

Boek ES, Padding JT, Den Otter WK and Briels WJ. *Journal of Physical Chemistry B* vol. 109, (42) 19851-19858.

Constitutive equations for extensional flow of wormlike micelles: Stability analysis of the Bautista-Manero model.

Boek ES, Padding JT, Anderson VJ, Tardy PMJ, Crawshaw JP and Pearson JRA. *Journal of Non-Newtonian Fluid Mechanics* vol. 126, (1) 39-46.

2004

Molecular-dynamics simulation of amphiphilic bilayer membranes and wormlike micelles: A multi-scale modelling approach to the design of viscoelastic surfactant solutions.

Boek ES, Den Otter WK, Briels WJ and Iakovlev D. *Philosophical Transactions of The Royal Society a: Mathematical, Physical and Engineering Sciences* vol. 362, (1821) 1625-1638.

Structural and dynamical characterization of Hele-Shaw viscous fingering.

Grosfils P, Boon JP, Chin J and Boek ES. *Philosophical Transactions of The Royal Society a: Mathematical, Physical and Engineering Sciences* vol. 362, (1821) 1723-1734.

Evidence for diffusion-controlled recombination kinetics in model wormlike micelles.

Padding JT and Boek ES. *Europhysics Letters* vol. 66, (5) 756-762.

Influence of shear flow on the formation of rings in wormlike micelles: A nonequilibrium molecular dynamics study.

Padding JT and Boek ES. *Physical Review E - Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics* vol. 70, (3).

2003

Ab Initio molecular dynamics study of the hydration of a sodium smectite clay.

Boek ES and Sprik M. *Journal of Physical Chemistry B* vol. 107, (14) 3251-3256.

Structure of bilayer membranes of gemini surfactants with rigid and flexible spacers from MD simulations.

Yakovlev D and Boek ES. *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* vol. 2658, 668-677.

2002

Molecular design of responsive fluids: Molecular dynamics studies of viscoelastic surfactant solutions.

Boek ES, Jusufi A, Löwen H and Maitland GC. *Journal of Physics Condensed Matter* vol. 14, (40 SPEC.) 9413-9430.

Lattice Boltzmann simulation of the flow of binary immiscible fluids with different viscosities using the Shan-Chen microscopic interaction model.

Chin J, Boek ES and Coveney PV. *Philosophical Transactions of The Royal Society a: Mathematical, Physical and Engineering Sciences* vol. 360, (1792) 547-558.

Novel non-exfoliated clay-nanocomposite materials by in situ co-polymerisation of intercalated monomers: A combinatorial discovery approach.

Coveney PV, Griffin JLW, WATKINSON M, Whiting A and Boek ES. *Mol. Sim.* vol. 28, (3) 295-316.

2001

Rheology of dilute suspensions of hard platelike colloids.

Van Der Kooij FM, Boek ES and Philipse AP. *Journal of Colloid and Interface Science* vol. 235, (2) 344-349.

Molecular modelling of the mechanism of action of organic clay-swelling inhibitors.

Bains AS, Boek ES, Coveney PV, Williams SJ and Akbar MV. *Molecular Simulation* vol. 26, (2) 101-145.

2000

Novel approaches to cross-linking high molecular weight polysaccharides: Application to guar-based hydraulic fracturing fluids.

Coveney PV, De Silva H, Gomtsyan A, Whiting A and Boek ES. *Molecular Simulation* vol. 25, (5) 265-299.

Particulate invasion from drilling fluids.

Bailey L, Boek ES, Jacques SDM, Boassen T, Selle OM, Argillier JF and Longeron DG. *Spe Journal* vol. 5, (4) 412-419.

Structure and phase behavior of a model clay dispersion: A molecular-dynamics investigation.

Kutter S, Hansen JP, Sprik M and Boek E. *Journal of Chemical Physics* vol. 112, (1) 311-322.

1999

Explanation for the supersaturation dependence of the morphology of lysozyme crystals.

Grimbergen RFP, Boek ES, Meeke H and Bennema P. *Journal of Crystal Growth* vol. 207, (1) 112-121.

1998

Computer simulation evidence for enthalpy driven dehydration of smectite clays at elevated pressures and temperatures.

De Siqueira AVC, Skipper NT, Coveney PV and Boek ES. *Molecular Physics* vol. 95, (1).

Resolution effects in Dissipative particle dynamics simulations.

Boek ES and Van Der Schoot P. *International Journal of Modern Physics C* vol. 9, (8) 1307-1318.

1997

Computer simulation evidence for enthalpy driven dehydration of smectite clays at elevated pressures and temperatures.

DE SIQUEIRA AVC and BOEK NTSPVCAES. *Molecular Physics* vol. 92, (1) 1-6.

Simulating the rheology of dense colloidal suspensions using dissipative particle dynamics.

Boek ES, Coveney PV, Lekkerkerker HNW and vanderSchoot P. *Physical Review E* vol. 55, (3) 3124-3133.

Simulating the rheology of dense colloidal suspensions using dissipative particle dynamics.

Boek ES, Coveney PV, Lekkerkerker HNW and van der Schoot P. *Physical Review E - Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics* vol. 55, (3) 3124-3133.

1996

Computer simulation of rheological phenomena in dense colloidal suspensions with dissipative particle dynamics.

Boek ES, Coveney PV and Lekkerkerker HNW. *Journal of Physics Condensed Matter* vol. 8, (47) 9509-9512.

A robust water potential parameterisation.

Boek ES, Coveney PV, Williams SJ and Bains AS. *Molecular Simulation* vol. 18, (3) 145-154.

1995

Prediction of crystal growth morphology based on structural analysis of the solid-fluid interface.

Liu XY, Boek ES, Briels WJ and Bennema P. *Nature* vol. 374, (6520) 342-345.

Analysis of morphology of crystals based on identification of interfacial structure.

Liu XY, Boek ES, Briels WJ and Bennema P. *The Journal of Chemical Physics* vol. 103, (9) 3747-3754.

Molecular Modeling of Clay Hydration: A Study of Hysteresis Loops in the Swelling Curves of Sodium Montmorillonites.

Boek ES, Coveney PV and Skipper NT. *Langmuir* vol. 11, (12) 4629-4631.

Monte Carlo Molecular Modeling Studies of Hydrated Li-, Na-, and K-Smectites: Understanding the Role of Potassium as a Clay Swelling Inhibitor.

Boek ES, Coveney PV and Skipper NT. *Journal of The American Chemical Society* vol. 117, (50) 12608-12617.

1994

Interfaces between a saturated aqueous urea solution and crystalline urea: A molecular dynamics study.

Boek ES, Briels WJ and Feil D. *Journal of Physical Chemistry* vol. 98, (6) 1674-1681.

1993

Molecular dynamics simulations of aqueous urea solutions: Study of dimer stability and solution structure, and calculation of the total nitrogen radial distribution function $G_N(r)$.

Boek ES and Briels WJ. *The Journal of Chemical Physics* vol. 98, (2) 1422-1427.

1992

Molecular-dynamics simulations of interfaces between water and crystalline urea.

Boek ES, Briels WJ, Van Eerden J and Feil D. *The Journal of Chemical Physics* vol. 96, (9) 7010-7018.

1991

From wave function to crystal morphology: application to urea and alpha-glycine.

Boek ES, Feil D, Briels WJ and Bennema P. *Journal of Crystal Growth* vol. 114, (3) 389-410.

1989

Electron spectroscopy, a tool to study the dynamics of heavy-ion collisions.

Krämer M, Blank B, Boek E, Ditzel E, Kankeleit E, Klotz-Engmann G, Müntz C, Oeschler H, Rhein M and Senger P. *Physical Review C* vol. 40, (4) 1662-1676.

1986

Reaction dynamics studied via positron and electron spectroscopy.

Krieg R, Boek E, Gollerthan U, Kankeleit E, Klotz-Engmann G, Krämer M, Meyer U, Oeschler H and Senger P. *Physical Review C* vol. 34, (2) 562-575.

1985

Strong Angular Momentum Effects in Near-Barrier Fusion Reactions.

Haas B, Duchêne G, Beck FA, Byrski T, Gehringer C, Merdinger JC, Nourredine A, Rauch V, Vivien JP, Barrette J, Tobbeche S, Boek E, Styczen J, Keinonen J, Dudek J and Nazarewicz W. *Physical Review Letters* vol. 54, (5) 398-401.

1975

Hyperfine interactions of light nuclei recoil-implanted into iron.

Boek E, Hryniewicz AZ, Merdinger JC and Vivien JP. *Physical Review C* vol. 12, (6) 1873-1877.

1967

Analysis of morphology of crystals based on identification of interfacial structure.

Liu XY, Boek ES, Briels WJ and Bennema P. *Physics of Fluids* vol. 10, (11) 3747-3754.